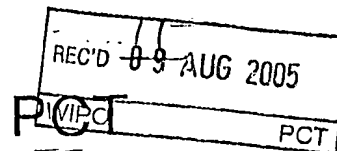


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# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



To:

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/GB2005/001590

International filing date (day/month/year)  
26.04.2005

Priority date (day/month/year)  
29.04.2004

International Patent Classification (IPC) or both national classification and IPC  
H04L29/06, H04L29/08, H04L12/18, A61B5/00, H04L12/56

Applicant  
BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY

### 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

### 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/GB2005/001590

**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/GB2005/001590

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial  
applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- ☐ the entire international application,
- ☒ claims Nos. 5,13,20

because:

- ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (*specify*):
- ☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 5,13,20 are so unclear that no meaningful opinion could be formed (*specify*):

see separate sheet

- ☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
- ☐ no international search report has been established for the whole application or for said claims Nos.
- ☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form	<input type="checkbox"/> has not been furnished
	<input type="checkbox"/> does not comply with the standard
the computer readable form	<input type="checkbox"/> has not been furnished
	<input type="checkbox"/> does not comply with the standard

- ☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
- ☐ See separate sheet for further details

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
**PCT/GB2005/001590**

**Box No. V Reasoned statement under Rule 43b/s.1(a)(i) with regard to novelty, inventive step or  
Industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	1-4,6-12,14-19,21,22
	No: Claims	
Inventive step (IS)	Yes: Claims	1-4,6-12,14-19,21,22
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-4,6-12,14-19,21,22
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

Re Item III.

Claims 5, 13 and 20 refer to an "epidemic dissemination process". This term is vague as its real scope is obscured. A claim to such a relative feature is thus not clear in its scope and thus not sufficiently defined (Article 6 PCT).

Re Item V.

1 Reference is made to the following documents:

- D1 : WO 02/35997 A (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION; WILSON,) 10 May 2002 (2002-05-10)
- D2 : EP 1 193 921 A (HARRIS CORPORATION) 3 April 2002 (2002-04-03)
- D3 : WO 01/58131 A (BANDWIZ, INC; YOSEF, YUVAL; NEERMAN, HAIM; RAJWAN, DORON; AYAL, EDAN) 9 August 2001 (2001-08-09)
- D4 : WO 01/99348 A (BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY; RIZZO, MICHAEL; BRI) 27 December 2001 (2001-12-27)

2 Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

**A decentralised network in which a relay receives files and forwards these. Its application is in sensor networks. Files or events are transmitted from the sensors to a centralized data base, an assessment center, where the data from the sensors is analysed.**

From this, the subject-matter of independent claim 1 differs in that relays do not only communicate with the central data base, but also with each other. Thus events can then be redistributed to other sensors or detectors. Additionally, to save capacity in the network, events are bundled and compressed for transmission between the relays.

2.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)  
The problem to be solved by the present invention may be regarded as:

How to allow distributed data bases or assement centers to analyze the data in an efficient way. —

- 2.2 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

To have a transparent relay layer in the network for efficiently transmitting events between them is not disclosed by the prior art.

- 2.3 Claims 2-4 and 6-7 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

- 2.4 Claims 8-12, 14-19, 21 and 22 are related to the same features in different categories of claims. They are thus also novel and inventive.

3. Document D2 discloses the conglomeration of files and their compression to save bandwidth in a radio network, but it relates to radio only transmissions over a link. Relay devices are not mentioned, in particular it is not mentioned to use the conglomeration and cmpression only between relays. Thus a combination with D1 is not immediately obvious, as the direct combination would lead to a more efficient collection of information, but not mention the fact of distributing the messages to other entities than the central server.

D3 also mentions the possibility to group messages together and to compress them for transmission, but in a client server scenario. The virtual relay layer is not indicated.

Document D4 is the state of the art acknowledged by the applicant in the description.

4. The application is further industrially applicable.